

CLAIMS

1. An organic light-emitting device, comprising:
 - a first electro-conductive layer;
 - a plurality of emitters, wherein a first emitter is provided on the top surface of said first electro-conductive layer, and the other emitters are stacked up the top surface of said first emitter in turn, until a last N-th emitter; and
 - a second electro-conductive layer, provided on the top surface of said N-th emitter, a supplied voltage connectedly provided between said first and said second electro-conductive layers.
2. The organic light-emitting device according to Claim 1, wherein said emitters are emitting layers.
3. The organic light-emitting device according to Claim 2, wherein said emitters are further selected from the group consisting of a hole-injecting layer, hole transport layer, electron transport layer, electron-injecting layer, and the combination thereof.
4. The organic light-emitting device according to Claim 1, wherein each of said emitters is allowed for projecting a colorful light source.
5. The organic light-emitting device according to Claim 4, wherein said colorful light sources projected by each of said emitters are presented as the same color.
6. The organic light-emitting device according to Claim 4, wherein said colorful light sources projected by each of said emitters are individually presented as a color selected from the group consisting of red, blue, green, and the combination thereof.
7. The organic light-emitting device according to Claim 1, further comprising a transparent substrate provided at the bottom surface of said first electro-conductive layer.
8. The organic light-emitting device according to Claim 1, wherein each of said emitters further comprising at least one dopant optionally provided therein.
9. The organic light-emitting device according to Claim 8, wherein said dopant is selected from the group consisting of a fluorescent substance, phosphorescent substance, and the combination thereof.